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(11)

EP 1 347 064 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.02.2004 Bulletin 2004/06

(51) Int Cl.7: **C12Q 1/70**

(43) Date of publication A2:
24.09.2003 Bulletin 2003/39

(21) Application number: **03006189.9**

(22) Date of filing: **19.03.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT SE SI SK TR**
Designated Extension States:
AL LT LV MK RO

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(30) Priority: **20.03.2002 JP 2002078971**

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(54) **Base sequence characteristic of small round-structured viruses**

(57) A cDNA sequence of any one of SEQ ID NOS:
1 to 4 or a derivative thereof, which binds to a genogroup
I small round-structured virus genome, or a fragment of
a cDNA sequence of any one of SEQ ID NOS:1 to 4 or

a derivative thereof, which is large enough to bind to a
genogroup I small round-structured virus genome.

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EUROPEAN SEARCH REPORT

Application Number
EP 03 00 6189

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	OHYAMA T ET AL: "DETECTION AND NUCLEOTIDE SEQUENCE ANALYSIS OF HUMAN CALICIVIRUSES (HUCVS) FROM SAMPLES IN NON-BACTERIAL GASTROENTERITIS OUTBREAKS IN HOKKAIDO, JAPAN" MICROBIOLOGY AND IMMUNOLOGY, TOKYO, JP, vol. 43, no. 6, 1999, pages 543-550, XP001146320 ISSN: 0385-5600 * page 543 - page 548; figure 1 * ---	1	C12Q1/70
X	JIANG X ET AL: "NORWALK VIRUS GENOME CLONING AND CHARACTERIZATION" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 250, no. 4987, 14 December 1990 (1990-12-14), pages 1580-1583, XP001153539 ISSN: 0036-8075 * page 1580 * ---	1	
X	VINJE J ET AL: "Genetic polymorphism across regions of the three open reading frames of Norwalk-like viruses" ARCHIVES OF VIROLOGY, NEW YORK, NY, US, vol. 145, no. 2, February 2000 (2000-02), pages 223-241, XP002247148 ISSN: 0304-8608 * page 223 - page 227 * --- -/--	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7) C12Q
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 6 October 2003	Examiner Costa Roldan, N
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P04C01)



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EUROPEAN SEARCH REPORT

Application Number
EP 03 00 6189

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	GREEN KIM Y ET AL: "A predominant role for Norwalk-like viruses as agents of epidemic gastroenteritis in Maryland nursing homes for the elderly." JOURNAL OF INFECTIOUS DISEASES, vol. 185, no. 2, 15 January 2002 (2002-01-15), pages 133-146, XP002253162 ISSN: 0022-1899 * page 133 - page 135 * ---	1	
X	NORCOTT J P ET AL: "Genomic diversity of small round structured viruses in the United Kingdom." JOURNAL OF MEDICAL VIROLOGY, vol. 44, no. 3, 1994, pages 280-286, XP009014855 ISSN: 0146-6615 * page 2805 - page 281 * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search		Date of completion of the search	Examiner
MUNICH		6 October 2003	Costa Roldan, N
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.92 (P04C01)



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Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

claim 1 (partially)



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claim : 1 (partially)

A cDNA sequence with SEQ ID NO:1 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:1, which binds to a genogroup I small round-structured virus genome (GI SRSV).

2. Claim : 1 (partially)

A cDNA sequence with SEQ ID NO:2 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:2, which binds to a genogroup I small round-structured virus genome (GI SRSV).

3. Claim : 1 (partially)

A cDNA sequence with SEQ ID NO:3 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:3, which binds to a genogroup I small round-structured virus genome (GI SRSV).

4. Claim : 1 (partially)

A cDNA sequence with SEQ ID NO:4 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:4, which binds to a genogroup I small round-structured virus genome (GI SRSV).

5. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:5, or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:5, which binds to a genogroup II small round-structured virus genome (GII SRSV).

6. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:6 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:6, which binds to a genogroup II small round-structured virus genome (GII SRSV).

7. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:7 or a derivative thereof, or



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

a fragment of the cDNA sequence with SEQ ID NO:7, which binds to a genogroup II small round-structured virus genome (GII SRSV).

8. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:8 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:8, which binds to a genogroup II small round-structured virus genome (GII SRSV).

9. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:9 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:9, which binds to a genogroup II small round-structured virus genome (GII SRSV).

10. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:10 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:10, which binds to a genogroup II small round-structured virus genome (GII SRSV).

11. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:11 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:11, which binds to a genogroup II small round-structured virus genome (GII SRSV).

12. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:12 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:12, which binds to a genogroup II small round-structured virus genome (GII SRSV).

13. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:13 or a derivative thereof, or a fragment of the cDNA sequence with SEQ ID NO:13, which binds to a genogroup II small round-structured virus genome (GII SRSV).



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**LACK OF UNITY OF INVENTION
SHEET B**

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

14. Claim : 2 (partially)

A cDNA sequence with SEQ ID NO:14 or a derivative thereof,
or a fragment of the cDNA sequence with SEQ ID NO:14, which
binds to a genogroup II small round-structured virus genome
(GII SRSV).